Page 1 of 8



OTPE-

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/085,198

DATE: 10/17/2002 ( 6

112775

TIME: 09:54:59

Input Set : A:\Cura579.txt

Output Set: N:\CRF4\10172002\J085198.raw

- 3 <110> APPLICANT: Alsobrook et al.
- 5 <120> TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
- 7 <130> FILE REFERENCE: 21402-279
- 9 <140> CURRENT APPLICATION NUMBER: 10/085,198
- 10 <141> CURRENT FILING DATE: 2002-02-25
- 12 <150> PRIOR APPLICATION NUMBER: 60/271,646
- 13 <151> PRIOR FILING DATE: 2001-02-26
- 15 <150> PRIOR APPLICATION NUMBER: 60/276,401
- 16 <151> PRIOR FILING DATE: 2001-03-16
- 18 <150> PRIOR APPLICATION NUMBER: 60/311,981
- 19 <151> PRIOR FILING DATE: 2001-08-13
- 21 <150> PRIOR APPLICATION NUMBER: 60/312,858
- 22 <151> PRIOR FILING DATE: 2001-08-16
- 24 <150> PRIOR APPLICATION NUMBER: 60/271,840
- 25 <151> PRIOR FILING DATE: 2001-02-27
- 27 <150> PRIOR APPLICATION NUMBER: 60/277,324
- 28 <151> PRIOR FILING DATE: 2001-03-20
- 30 <150> PRIOR APPLICATION NUMBER: 60/286,096
- 31 <151> PRIOR FILING DATE: 2001-04-21
- 33 <150> PRIOR APPLICATION NUMBER: 60/299,695
- 34 <151> PRIOR FILING DATE: 2001-06-20
- 36 <150> PRIOR APPLICATION NUMBER: 60/315,614
- 37 <151> PRIOR FILING DATE: 2001-08-29
- 39 <150> PRIOR APPLICATION NUMBER: 60/272,405
- 40 <151> PRIOR FILING DATE: 2001-02-28
- 42 <150> PRIOR APPLICATION NUMBER: 60/272,410
- 43 <151> PRIOR FILING DATE: 2001-02-28
- 45 <150> PRIOR APPLICATION NUMBER: 60/278,660
- 46 <151> PRIOR FILING DATE: 2001-03-20
- 48 <150> PRIOR APPLICATION NUMBER: 60/272,414
- 49 <151> PRIOR FILING DATE: 2001-02-28
- 51 <150> PRIOR APPLICATION NUMBER: 60/280,234
- 52 <151> PRIOR FILING DATE: 2001-03-30
- 54 <150> PRIOR APPLICATION NUMBER: 60/272,404
- 55 <151> PRIOR FILING DATE: 2001-02-28
- 57 <150> PRIOR APPLICATION NUMBER: 60/280,039
- 58 <151> PRIOR FILING DATE: 2001-03-30
- 60 <150> PRIOR APPLICATION NUMBER: 60/313,280
- 61 <151> PRIOR FILING DATE: 2001-08-17
- 63 <160> NUMBER OF SEQ ID NOS: 653
- 65 <170> SOFTWARE: PatentIn Ver. 2.1
- 67 <210> SEQ ID NO: 1
- 68 <211> LENGTH: 12660

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/085,198 TIME: 09:54:59

DATE: 10/17/2002

Input Set : A:\Cura579.txt

Output Set: N:\CRF4\10172002\J085198.raw

69 <212> TYPE: DNA

70 <213> ORGANISM: Homo sapiens

72 <400> SEQUENCE: 1

73 atgctactcc ctgccctcct ctttgggatg gcgtgggccc tggctgacgg gcggtggtgt 60 74 gagtggacag agaccatccg tgtggaggag gaagtggcac cccgtcagga ggacctggta 120 75 ccctgtgcca gcctcgacca ttacagccgc ctgggctggc ggctggacct gccctggagt 180 76 ggccgctcgg ggcttacccg gtccccagcg cctgggctct gtcctatcta caaacctcca 240 77 gaaacccggc ctgccaagtg gaaccggaca gtgaggactt gttgcccagg ctggggggc 300 78 gcccactgca ctgaggccct tgccaaagcc agtcctgaag gccactgctt tgccatgtgg 360 79 cagtgccagc tacaggcagg ctcagctaat gcctcagcag gaagcctgga ggagtgctgc 420 80 gcccggccct ggggacgaag ctggtgggat ggcagctccc aggcctgccg cagctgctcc 480 81 ageogacace tgccaggeag tgcctcttct ccagccctcc tgcagcccct ggcaggggct 540 82 gtgggccagc tctggagcca gcaccagcgt ccctcggcca cctgtgcctc ctggtcgggc 600 83 ttccactacc gcacctttga tggccgccac tatcacttcc tgggccgctg cacctacctg 660 84 ctggcgggtg ctgcggactc cacctgggct gtccacctaa cacccgggga ccgctgcccc 720 85 cagcetggae actgteageg ggteeaggtg actatgggae eegaggaggt getgateeag 780 86 gctggaaatg tgtctgtgaa ggggcagctg gtacctgaag ggcagtcttg gctgctccac 840 87 gggctgagcc tqcaatggct gggggactgg ctggtgctgt caggaggcct gggggtcgtg 900 88 gtgcggctgg acaggactgg ctccatctcc atctctgtqq accacqagct ctgggqacag 960 89 acacaaggcc tctgtgggct ctacaatggc tggccagagg atgacttcat ggagccaggc 1020 90 ggagggctgg ccatgttagc agccaccttt ggaaattcct ggaggctccc tggctcggag 1080 91 gtttcccccg ctgagtacca cgaggcctgt ctctttgcct actgcgcagg ggccatggca 1140 92 ggcagtgggc aagaggggcg gcagcaggct gtttgtgcca cctttgccag ctatgtccag 1200 93 geetgtgeea ggeggeacat ceaeattege tggaggaage etggettetg egagegeetg 1260 94 tgccccgggg qccagctcta ctccgactqc qtctccctct qcccacccaq ctqcqaggcg 1320 95 gtgggtcagg gagaggagga gtcctgcagg gaagagtgtg tgagtggctg tgagtgcccg 1380 96 cgaggeetet tetggaatgg caccetetgt gtgeetgetg cecaetgeee etgetaetae 1440 97 tgccgccagc gctatgtacc cggtgacacc gtgcgccagc tgtgtaaccc ctgcgtgtgc 1500 98 agggatggcc gctggcactg tgcccaggca ctgtgccccg ccgagtgtgc agtgggtggg 1560 99 gacgggcact acctcacctt cgatgggcgg agctactcct tctggggtgg tcaaggttgc 1620 100 cgctacagcc tggtgcagcc ctatccttcc acgtgcccca cccccaccat cagaccccct 1680 101 gttccaggag ctgtgctggt caatgggcag gatgtgggct tgccctggat tggcgctgag 1740 102 ggcctcagtg tgcgccgagc ttcctctgcc tttctgctgc tgcgctggcc tggggcccag 1800 103 gtgctctggg gactgtctga ccctgtagcc tacatcaccc tggacccccg ccatgcccac 1860 104 caggtgcagg gtctgtgtgg caccttcacc cagaaccagc aggacgactt cctgacacca 1920 105 geeggagatg tggaaactag cattgetgee tttgetagea agtteeaggt ggeeggeaag 1980 106 ggaagatgcc cctctgagga cagtgccctg ctgtctccct gcaccaccca ctcccagcgc 2040 107 cacgccttcg cagaggcggc ctgtgccatc ctgcacagct ctgtcttcca ggaatgccac 2100 108 aggetggtgg acaaagagee attetatetg egetgeetgg eageegtgtg tggetgtgat 2160 109 cccggcagtg actgcctgtg cccggtgctg tctgcctatg cgcgtcgctg tgcccaggaa 2220 110 ggtgcctcac ctccctggag gaaccagacc ctctgccctg ttatgtgtcc tggtggccag 2280 111 gagtaccgag agtgtgcccc agcatgcggt caacactgcg ggaaaccaga ggactgtgga 2340 112 gagetgggea getgtgtgge tggttgtaae tgteetetgg ggetgetgtg ggaeeetgag 2400 113 ggccagtgtg tgccccccag cttgtgcccc tgccagctcg gagcccgtcg ctatgcccct 2460 114 ggcagtgcca ccatgaagga gtgcaaccgc tgggagcttg tctatgcccc tggtgcctgt 2520 115 ctcctcacct gtgacagccc cagcgccaat cactcctgcc ctgcaggcag tactgatggc 2580 116 tgtgtctgtc caccaggcac ggtgctgctg gacgagcgct gtgtgcctcc tgacctctgt 2640 117 ccctqccqtc acaqtqqqca qtqqtacctq cccaacqcca ccatccaqqa aqactqcaac 2700 118 gtttgcgtgt gccqqgqccq gcagtqgcac tgcacaqqcc agcqqcqcaq tqqqcqgtgc 2760



RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/085,198

DATE: 10/17/2002

TIME: 09:54:59

Input Set : A:\Cura579.txt

Output Set: N:\CRF4\10172002\J085198.raw

119 caggeateag gegeeecea etatgtgaea tttgaeggae tggeetteae etateetggg 2820 120 gcctgcgagt atctgctggt gcgagaggcc agtggcctat tcacagtctc tgcccagaac 2880 121 ctgccctgtg gggccagcgg tctcacctgc accaaagcgc tggccgtgcg tctggagggc 2940 122 actgttgtgc acatgctcag agggactcgg gtcctggtgc aactgtcccc tcagttccgt 3000 123 ggtcgcgtgg ctgggctgtg tggtgacttt gatggagatg ccagtaatga tctgcggagc 3060 124 cgccagggcg tcctggagcc cacagctgaa ctggctgccc actcctggcg cctcagcccc 3120 125 ctctgccctg agccaggaga cctgccacac ccctgcacga tgaacacaca ccgggctggt 3180 126 tgggctcggg cccgctgtgg ggcgctgctg cagccgctct tcacattatg ccacgcggag 3240 127 gtcccccgc agcagcacta tgagtggtgc ctgtatgacg cctgcggctg cgactcgggg 3300 128 ggtgactgtg agtgcctctg ctcggccatt gccacctatg cagatgagtg tgcccggcat 3360 129 gggcaccacg tgcgctggcg tagccaggag ctctgctgtc tacaccagac accctgtgcc 3420 130 ctccatggtg gtcaccttgg ccagccagcc tggtgtggtt gcatcctttt gcccttgtgc 3480 131 ctcagtgate caaggetete tecteteeae ecageeetge agtgtgaagg gggacaggta 3540 132 tatgaggeet gtggeeceae gtgteeceee acetgeeatg ageageatee tgageeeggg 3600 133 tggcactgcc aggtggtggc ctgtgtggag ggctgcttct gccccgaggg gactctgctg 3660 134 cacggacgct gtgtgctcag cacgtgccag gaaggtcaat ggcattgtgg gggtgacggt 3720 135 ggccactgtg aggagcttgt gcctgcctgt gcagagggag aggccctgtg ccaagagaat 3780 136 gggcactgtg tgccccatgg gtggctttgt gacaaccagg acgactgtgg cgatggctct 3840 137 gatgaggagg gtgagtgtct ttgcccatgc gtggaagcga cagggttggt cagtccttgc 3900 138 acatgttgtg ccgccccagg ctgtggggag gggcagatga cttgcagctc cggccactgc 3960 139 ctgcccctgg ccctgctctg tgaccgccag gatgactgtg gagatggcac ggatgagccg 4020 140 agctatecgt geececaggg ettgetggee tgtgeegatg gaegetgeet geegeeggee 4080 141 ctgctctgcg atgggcatcc tgactgtctg gatgccgccg acgaggagtc ctgtctgggg 4140 142 caggtgacct gcgtccccgg ggaggtgtcc tgtgttgatg gcacctgcct gggggccatc 4200 143 cagctgtgtg acggagtctg ggactgccca gatggagccg atgaggggcc gggacactgc 4260 144 cccctacctt ctctgcccac acctcctgcc agcaccttgc ctggcccctc cccaggctcc 4320 145 ctggacactg cgtcaagtcc cctggccagc gccagccctg cgccaccctg cggccccttc 4380 146 gagtttcggt gcggcagcgg cgagtgcacc ccgcggggct ggcgctgcga ccaggaggaa 4440 147 gactgegeeg acggeagega egagegege tgeggaggge eetgegegee geaceaegeg 4500 148 ccctgcgccc gcggccctca ctgcgtgtcc cccgagcagc tgtgcgacgg cgtgcggcag 4560 149 tgtcccgacg gctcggacga gggccccgac gcctgcgttg aggctcccgc gccccggcc 4620 150 atgegeggee eccetggeea ageeggeggg eccaectett eecgagegee ateceeacet 4680 151 tegeeteetg aggeacagg agagggeagg aagggaeagg ageggageag gacacatete 4740 152 acagtgocog caggotocac coagetgoot etgtgocotg goototttoc etgtgqtg 4800 153 gctccggggc tgtgcctgac ccctgagcag ctctgtgatg ggatcccaga ctgtcccag 4860 154 ggcgaggacg agctggactg cggggggctg ccagccctgg gaggccccaa caggacaggg 4920 155 cttccctgcc cagaatacac ctgccccaat ggcacctgca taggcttcca gctggtgtgt 4980 156 gatgggcagc ctgactgtgg aaggccaggg caggtgggcc cctccccaga agagcagggt 5040 157 tgtggggcct ggggccctg gagcccatgg gggccctgca gccggacgtg tgggccctgg 5100 158 ggccagggcc ggagccgccg ctgctcccca ctcggcctcc tggtgctaca gaactgccca 5160 159 gggcctgagc accagtetea ggcctgette acggcageet geccagtgga eggtgaatgg 5220 160 agcacctggt ccccctggtc tgtgtgctct gagccgtgca ggggcaccat gacgcggcaa 5280 161 cggcagtgcc actcacccca gaatgggggc cgcacctgtg ctgcactgcc cggaggcctg 5340 162 cacageacce gecagaceaa geettgeeet caggaegget geeceaatge cacttgetet 5400 163 ggggagctga tgttccagcc ctgtgccccc tgcccactga cctgtgatga catctctggc 5460 164 caggtcacgt gcccacctga ttggccctgc ggcagcccgg gctgctggtg cccagaaggg 5520 165 caggtgctgg gcagcgaggg gtggtgtgt tggccccggc agtgcccctg cctggtggac 5580 166 ggtgcccgct actggcctgg gcaacgcatc aaggccgact gccagctctg catctgccaa 5640 167 gacggacggc cccgacgctg ccgactcaac ccggactgcg ctggtgaggc ccttccctcg 5700

**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/10/085,198**DATE: 10/17/2002

TIME: 09:54:59

Input Set : A:\Cura579.txt

Output Set: N:\CRF4\10172002\J085198.raw

168 gggtccctag tcctctcct ggaccgccca gctgcacatc caccacctcc ttcaggctct 5760 169 gactgttggc cctccctcag tggactgtgg ctggtcctcc tggtcaccct gggccaaqtq 5820 170 cctgggcccc tgtggaagcc agagcatcca gtggtccttc cggagctcca acaacccccg 5880 171 cccctccggc cgaggtcgcc agtgccgtgg catccaccgc aaggcacgca gacggagccc 5940 172 tgtgaggggt gtgagcatca gggccaggtc caccgtgtcg gggaacgctg gcatgggggc 6000 173 ccctqcaqqq tqtqccaqtq tctqcacaac ctcaccqcac actqctcacc ctactqcccq 6060 174 ctcqqcaqct qcccccaggg ctgggtcttg gtggagggga cgggagaatc atgctgccac 6120 175 tgtgccctac ctggagagaa ccagacggtc cagcccatgg ccactcctgc cgcagctccg 6180 176 geteccagte eccagateag attecettig gecaettaea tietgeetee gieaggagge 6240 177 tectgeegee etetgteete ecetaeteea geetgtetet etettetgea eceagaeeee 6300 178 tgctattctc ccctqgggct ggccggactg gctgagggga gtctgcatgc atcgtcccag 6360 179 caqctqqaac accccaccca qqctqccctc ctgqgggctc ccacccaggg gcccagccct 6420 180 cagggatggc acgctggagg ggatgcttat gccaagtggc acactcggcc ccattacctg 6480 181 cagetggace tgetteagee teggaacete actggeatee tagtgeegga gaetggetee 6540 182 tocaacqcat atqccaqcaq cttctcactc caqttcaqca qcaatqqtct acactqqcat 6600 183 gactategtg acctectgee tggeatettg eccetgeeca aggtateace egeecaagge 6660 184 cqatqqqqcc aqcaqcccac catqcccttt tqtqqqttcc ataqtctttq tccccaaggg 6720 185 ccttccagtg tccccqaqqq qcatqqcctq cattcqatqc ttqttqaata cctqcttttc 6780 186 cccagaaact gggatgacct ggaccctgcc gtatggactt tcggccgcat ggtgcaggcg 6840 187 aggtttgtca gggtgtggcc ccacgatgtc caccacagcg atgtccccct gcaggtggag 6900 188 ctgctgggct gcgagccagg ggttggactc cgctgtgcca gtggtgagtg tgtcctgaga 6960 189 gggggccctt gtgacggtgt tctggactgc gaggatggct cggatgagga gggctgtgtg 7020 190 ttgctgcctg agggcactgg caggtatact gtggccggcc gtgcagctca cgcccttggc 7080 191 ctggcctttg aggggacagc catgtgggag gggcccggca ctgccttcac ccccaaggtg 7140 192 cccagaccct gcatgctgag gagctgcagc cggggcctgg cagagactga gcactggccc 7200 193 cctgggcagg aatcccccac gtccccgaca gaagcctggg ataccctctc gagggccccc 7260 194 accttecttt eetgggaagg ggagetggge aageeteace teeetetace tacacceaca 7320 195 gagacaagge cegtgagtee tggeecagee teeggggtge etcaceatgg ggaatetgtg 7380 196 cagatggtga ccaccaccc cataccccag atggaggcca ggaccctgcc accaggtatg 7440 197 gcaqctqtga cggtggtgcc cccacaccct gtgactccag cgacccctgc tggtaagatg 7500 198 ccaagccctt ctacctgtgt gcaaggcctc tgccagagcg tcgccccagg accettccca 7560 199 cctqtqcaqt qtqqccccqq ccaqacqccc tqtqaqgtqc tqqqctqcqt qgaacaqqcq 7620 200 caggtgtgtg atggcaggga ggattgcctc gacggctccg acgagaggca ctgcggtgag 7680 201 ctgctggagg gcctgctgtc ctgtggggcc ctctgttccc cgagccagct gagctgtggc 7740 202 ageggggagt gtetgtetge tgageggege tgtgaeetge ggeetgaetg ceaggatgge 7800 203 tcggacgagg atggctgtgt ggactgcgtg ctggccccct ggtctgtctg gagcagctgc 7860 204 ageogeaget gtggcetggg ceteacette eagegeeagg agetgetgeg geeteetetg 7920 205 ccagggggca gctgcccgcg tgaccggttc cgaagccagt cctgctttgt gcaggcctgc 7980 206 ccaqtqqctq qqqcatqqqc catqtqqqaq qcctqqqqac cctqcaqcqt ctcctqcggg 8040 207 ggtggccate agagtegeea gagaagetgt gtggaeeeee caeeeaagaa tggeggtgee 8100 208 ccctqccccq qqqcctccca aqaqaqqqca ccctqcggct tgcagccctg ctcaggtggc 8160 209 acaqqtaaqq qqqtqctqqq ctqqqqacac qqaqqqaqca ctgtgggcac ggggcgattg 8220 210 ggcctcccag cacctaggct cacctggtgc ccatccccca ccagactgcg agctgggccg 8280 211 tgtqtatgtg agtgccgatc tgtgccagaa ggggctggtg cccccatgcc caccctcctg 8340 212 cctggatccc aaggccaaca gaagctgcag tgggcattgt gtggaagcct cccctccctg 8400 213 ctgtgcccct tggggctgag tgccctcttc cacatactcc caggatgccg ctgtcccccg 8460 214 gggctccttc tgcatgacac tcgctgcctg ccctctctg agtgcccctg cctggtgggc 8520 215 qaaqaqctqa aqtqqccaqq qqtqtccttc ctcctqqqca actqcaqcca atqcqtgtgt 8580 216 gagaaggggg agttgctgtg ccaaccaggg ggctgcccc tgccctgcgg ctggtcagcc 8640

RAW SEQUENCE LISTING DATE: 10/17/2002
PATENT APPLICATION: US/10/085,198 TIME: 09:54:59

Input Set : A:\Cura579.txt

Output Set: N:\CRF4\10172002\J085198.raw

217 tggtcctcct gggctccctg cgaccgctcc tgtggctctg gagtgagggc caggttcagg 8700 218 teteceteca acceteegge ageetggggg ggtgeeeegt gtgaaggtga eeggeaggaa 8760 219 ctgcagggct gccacacagt gtgtgggaca ggtatagccg ggagcctggg tgcaggagtc 8820 220 cccccttcct cctcccaatt ctgtaccctg agaacacatg ggatgggacc cactgaccac 8880 221 totacgtggg ggattgaggt gttcggctgg acgccctgga cttcctggtc ctcctgctcc 8940 222 caaagetgee ttgeeceggg agggggeett ggetggegea gtegtteeeg actetgeece 9000 223 agecetgggg atteatectg cecaggagat gecaeceagg aggageeetg eageceeet 9060 224 atagagtgta egggettetg egeceegge tgeacetgee eccetggtet ttteetgeae 9120 225 aatgetaget geetgeeeg eageeagtge eeetgeeage tgeaegggea getetatgea 9180 226 tcaggagcaa tggctcgcct ggactcctgc aacaactgca cctgtgtctc tggtaagatg 9240 227 gcatgcacct cggagcgctg cccagtggcc tgtggctgga gtccctggac cctgtggagt 9300 228 ctctgtagct gcagctgcaa cgtgggcatt cggcgccgct tccgggcagg cactgcaccc 9360 229 ccagetgcct ttgggggtgc tgagtgccaa ggccccacca tggaggctga attctgcagc 9420 230 ctgcggccat gtccagggcc agtgcctggc atgtgtccca gggacaagca gtggctggac 9480 231 tgtgcccagg gccctgcctc ttgtgcagag ctcagcgccc caagagggac taaccagacc 9540 232 tgccaccctg gctgccactg cccctctggg atgcttctgc tggtgagccc acgtggtcac 9600 233 cctggacccc ttggagccag tgttcagcct cctgtggccc tgcccggtgc catcggcacc 9660 234 ggttctgtgc caggagctgg gggatggggt ccatgggggc cctqqtccca ctqtaqccqg 9720 235 agctgtgggg gaggcctgcg gagccggacc cgggcctgtg accagccccc accccagggc 9780 236 ctgggggatt actgcgaggg gccacgggca cagggggagg tctgccaggc tctgccctgc 9840 237 ccagtgacca actgcactgc cattgaaggg gccgagtata gcccctgtgg ccctccgtgc 9900 238 cctcgctcct gtgatgacct agtgcactgc gtgtggcgct gccagcctgg ctgctactgc 9960 239 ccaccaggcc aggtactgag ttccaacggg gccatctgcg tgcagccggg tcactgcagc 10020 240 tgcctggacc tgctgaccgg gcagcggcac catccgggtg ctcggctggc aaggcctgac 10080 241 ggctgcaacc actgcacctg cctggagggg aggctgaact gcacagacct gccctgccca 10140 242 gactgegggg gtggccagag tetgcatece tgtgggcage cetgceeeeg eteetgeeag 10200 243 gacctgtccc ctgggagtgt gtgccagcca ggctctgtgg gctgccagcc cacttgtggg 10260 244 tgcccctgg gccagctctc ccaggacggg ctgtgcgtgc ccccagccca ctgccgctgc 10320 245 cagtaccage etggagecat ggeeceetee tttgteecea geaeetgtgt ggeaggeatt 10380 246 etgeaatgee aggaggtgee tgactgeeeg gaceetgggg tgtggagete ttggggeeet 10440 247 tgggaagact gcagtgtttc gtgtgggggc ggggagcagc tgcgctcccg gcgctgtgct 10500 248 cgtcctccct gcccagggcc tgcccgccag agccgcacat gcagcacaca ggtctgcaga 10560 249 gaggcagget geceggetgg cegeetgtae egtgaatgee ageeeggega gggatgeeec 10620 250 ttctcctgcg cccacgtcac gcagcaggtg ggctgcttct ctgagggctg cgaggagggc 10680 251 tgccactgcc ccgagggcac cttccagcac cgcctggcct gtgtgcagga gtgcccttgt 10740 252 gtgctgacag cctggctgct gcaggagctg ggagccacca taggtgaccc tggtcagccc 10800 253 ctcgggcctg gagatgagct ggactcaggc cagacacttc gtacaagctg tggcaactgc 10860 254 tegtgtgeae aegggaaget gtettgetee etggaegaet gettegagge egatggtggt 10920 255 ttcggtccct ggagcccgtg gggcccgtgc tcccgctcct gtggagggct gggcacccgt 10980 256 accegeagee gecagtgtgt geteaceatg eccaecetea gtgagetgee egtgtgeeet 11040 257 ggccctggct gtggggctgg gaactgttcc tggacctcct gggccccgtg ggaaccttgc 11100 258 tecegeaget geggagtggg ceageagege egeetgeggg catacegtee eeetgggeee 11160 259 ggcgggcact ggtgccccaa catcettact gcctaccaag agcgccgctt ctgcaacctg 11220 260 egageetgee cagaggeegg etgeecagea ggeatggagg tggteacetg tgeeaacege 11280 261 tgcccccgcc gctgctcaga cctccaggag ggaattgtgt gtcaggacga ccaggtctgc 11340 262 cagaagggct gccgctgccc aaaggggtcc ctggagcagg atggtggctq cgtgccaatt 11400 263 gggcactgtg actgcaccga tgcccagggc cacagctggg ccccggggag ccagcaccag 11460 264 gatgcctgca acaactgctc atgccaagct gggcagctct cctgcacggc tcagccctgc 11520 265 ccgcctccca cccactgtgc ctggagccac tggtcggcct ggagtccctg cagccactca 11580

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/085,198

DATE: 10/17/2002 TIME: 09:55:00

Input Set : A:\Cura579.txt

Output Set: N:\CRF4\10172002\J085198.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:131; N Pos. 5662

VERIFICATION SUMMARY

DATE: 10/17/2002

PATENT APPLICATION: US/10/085,198 TIME: 09:55:00

Input Set : A:\Cura579.txt

Output Set: N:\CRF4\10172002\J085198.raw

 $L\!:\!15291$  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131 after pos.:5640